

Title (en)

A VIRTUAL LOAD STORE QUEUE HAVING A DYNAMIC DISPATCH WINDOW WITH A DISTRIBUTED STRUCTURE

Title (de)

SPEICHERWARTESCHLANGE FÜR VIRTUELLE LAST MIT DYNAMISCHEM VERSANDFENSTER MIT VERTEILTER STRUKTUR

Title (fr)

FILE D'ATTENTE DE MÉMOIRES/CHARGES VIRTUELLES AYANT UNE FENÊTRE DE RÉPARTITION DYNAMIQUE À STRUCTURE DISTRIBUÉE

Publication

EP 2862062 A2 20150422 (EN)

Application

EP 13804852 A 20130611

Priority

- US 201261660548 P 20120615
- US 2013045261 W 20130611

Abstract (en)

[origin: WO2013188460A2] An out of order processor. The processor includes a distributed load queue and a distributed store queue that maintain single program sequential semantics while allowing an out of order dispatch of loads and stores across a plurality of cores and memory fragments; wherein the processor allocates other instructions besides loads and stores beyond the actual physical size limitation of the load/store queue; and wherein the other instructions can be dispatched and executed even though intervening loads or stores do not have spaces in the load store queue.

IPC 8 full level

G06F 9/38 (2006.01)

CPC (source: EP KR US)

G06F 9/3824 (2013.01 - EP US); **G06F 9/3826** (2013.01 - EP US); **G06F 9/3836** (2013.01 - EP KR US); **G06F 9/3838** (2013.01 - KR); **G06F 9/3851** (2013.01 - EP KR US); **G06F 9/3856** (2023.08 - KR); **G06F 5/14** (2013.01 - US); **G06F 9/30043** (2013.01 - US); **G06F 9/3856** (2023.08 - US); **G06F 2205/063** (2013.01 - US); **G06F 2205/064** (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2013188460 A2 20131219; WO 2013188460 A3 20140327; CN 104583943 A 20150429; CN 104583943 B 20180608; EP 2862062 A2 20150422; EP 2862062 A4 20161228; EP 2862062 B1 20240306; KR 101774993 B1 20170905; KR 20150027212 A 20150311; KR 20170102576 A 20170911; TW 201428617 A 20140716; TW 201738735 A 20171101; TW I585683 B 20170601; TW I617980 B 20180311; US 2015134934 A1 20150514; US 9904552 B2 20180227

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US 2013045261 W 20130611; CN 201380043001 A 20130611; EP 13804852 A 20130611; KR 20157000695 A 20130611; KR 20177024365 A 20130611; TW 102121092 A 20130614; TW 106105042 A 20130614; US 201414559740 A 20141203